### Appendix B Meteorological Data

This section contains meteorological data derived from various regulatory and non-regulatory sites. The data provides a comparative analysis of winds speed, wind direction, wind gusts and concentration data. Please note that meteorological instruments measure at different heights, and at different time intervals. By taking, the actual time of measurement and assuring that all data represented is in Pacific Standard Time (PST) there is uniformity of the data. In addition, not all stations measure at the exact same time, i.e. measurements at 053 and 056 therefore, comparisons are measurements within a 60-minute period. While there may be some overlapping and slight differences the comparative analysis provides the reader with a better understanding of the regional effect of the Exceptional Event.

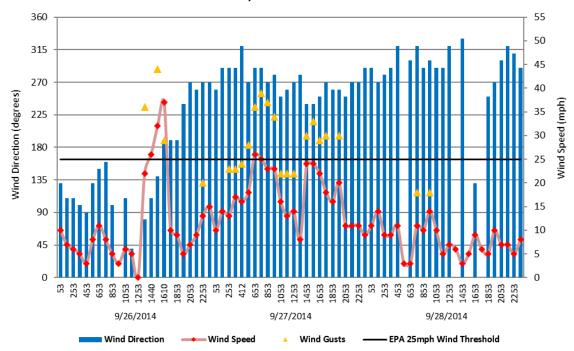
Indicate Seconds

Indicate Sec

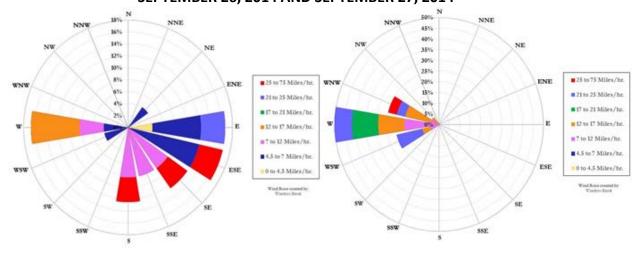
**Fig B-1**: Depicts the meteorological and air quality monitoring stations referenced in this document. Base map from Google Earth

#### IMPERIAL COUNTY SITES FIGURES B-2 THROUGH B-11

## FIGURE B-2 IMPERIAL COUNTY AIRPORT (KIPL) WIND SPEED, GUSTS AND DIRECTION

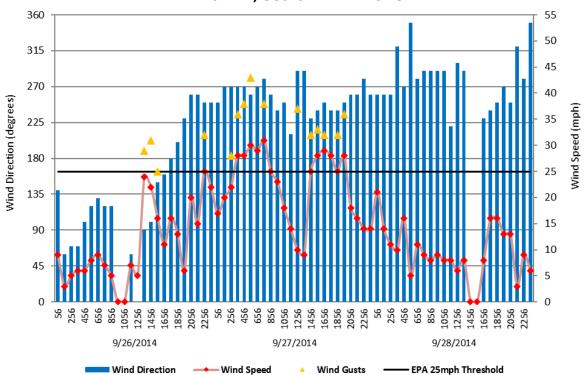


# FIGURES B-3 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

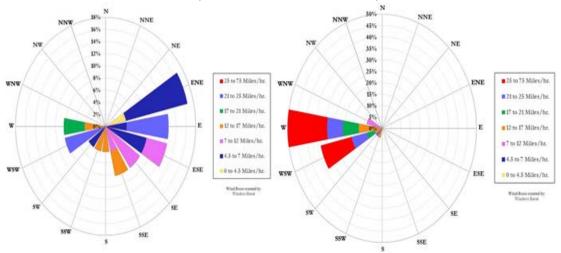


**Figs B-2 and B-3:** Imperial Airport meteorological data for September 26, 2014 through September 28, 2014, illustrates the different wind direction September 26, 2014 to September 27, 2014. Wind data from the NCEI's QCLCD system

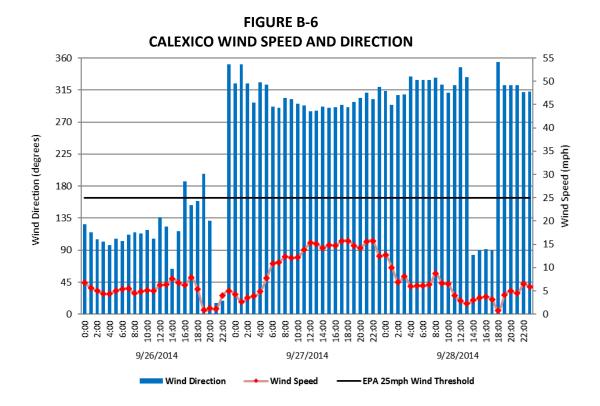




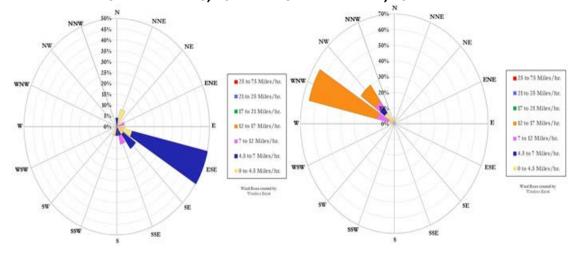
# FIGURES B-5 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014



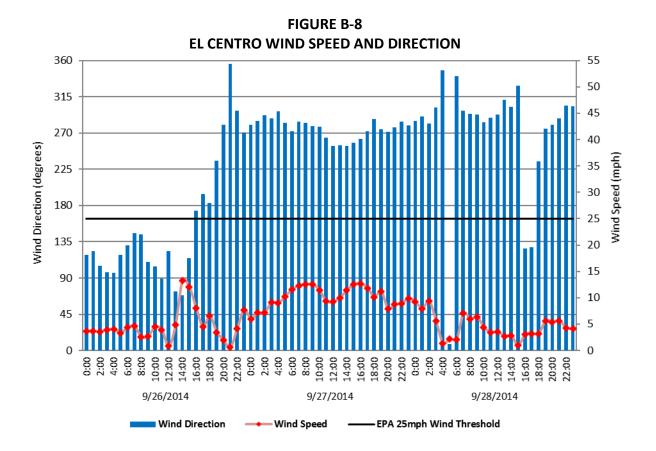
**Figs B-4 and B-5:** El Centro NAF meteorological data for September 26, 2014 through September 28, 2014, illustrates the different wind direction September 26, 2014 to September 27, 2014. Wind data from the NCEI's QCLCD system

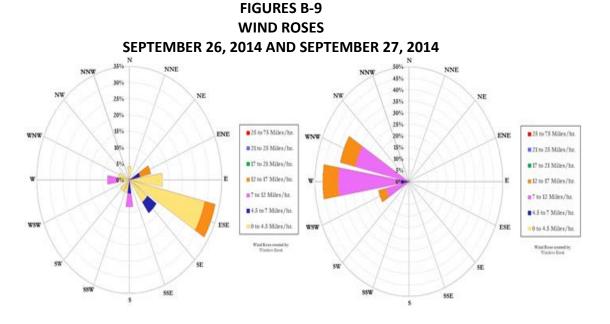


# FIGURES B-7 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014



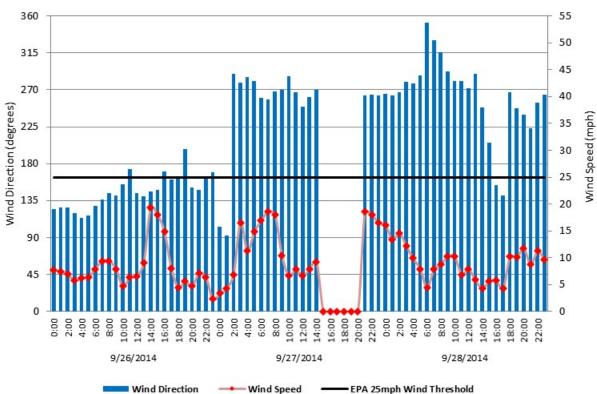
**Figs B-6 and B-7:** Calexico meteorological data for September 26, 2014 through September 28, 2014, illustrates the different wind direction September 26, 2014 to September 27, 2014. Wind data from the NCEI's QCLCD system



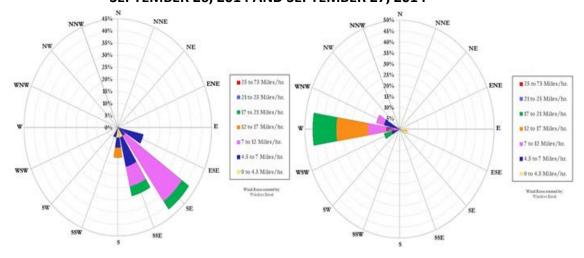


**Figs B-8 and B-9:** El Centro meteorological data for September 26, 2014 through September 28, 2014, illustrates the different wind direction September 26, 2014 to September 27, 2014. Wind data from the NCEI's QCLCD system.





# FIGURES B-11 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014



**Figs B-10 and B-11:** The Niland meteorological data, north of Brawley, measured increasing elevated wind speeds for several hours on September 26, 2014 and September 27, 2014. The data gap represent the length of time during the power outage. Wind data from the EPA's AQS system

### RIVERSIDE COUNTY SITES FIGURES B-12 THROUGH B-14

## FIGURE B-12 PALM SPRINGS AIRPORT (KPSP) WIND SPEED, GUSTS AND DIRECTION

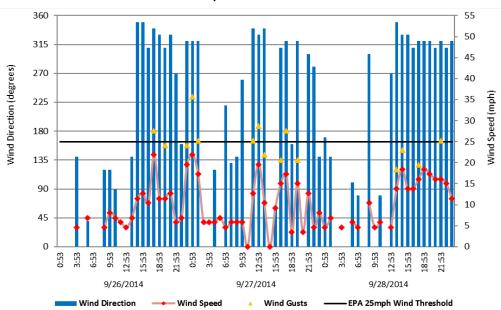


Fig B-12: Palm Springs Airport wind data from the University of Utah's MesoWest

# FIGURE B-13 JACQUELINE COCHRAN AIRPORT (KTRM) WIND SPEED, GUSTS AND DIRECTION

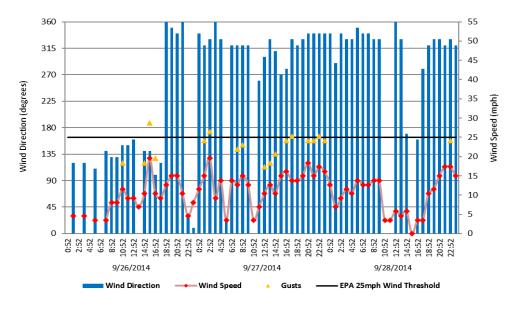


Fig B-13: Jacqueline Cochran Airport wind data from the University of Utah's MesoWest

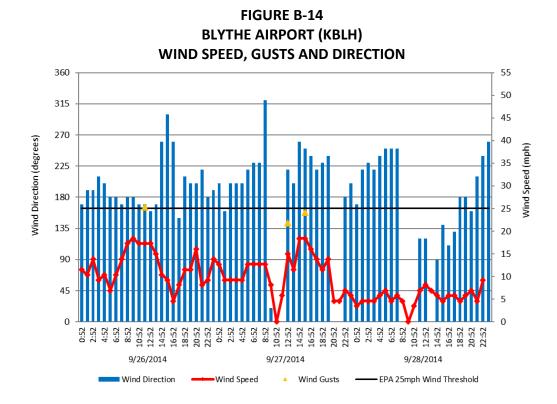


Fig B-14: Blythe Airport wind data from the University of Utah's MesoWest

### SOUTHERN SAN DIEGO COUNTY AND UPSTREAM SITES

# FIGURE B-15 CAMPO AIRPORT (KCZZ) WIND SPEED, GUSTS AND DIRECTION

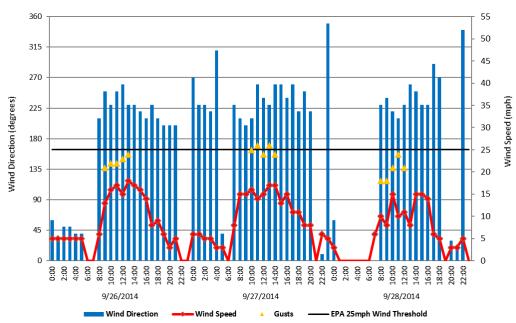
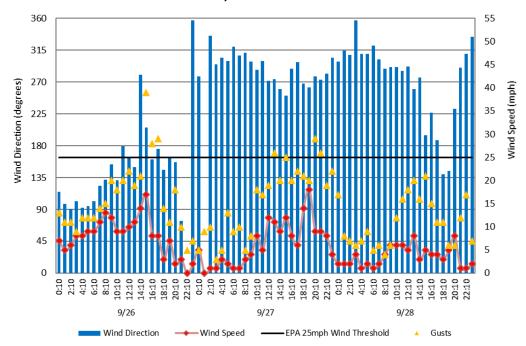
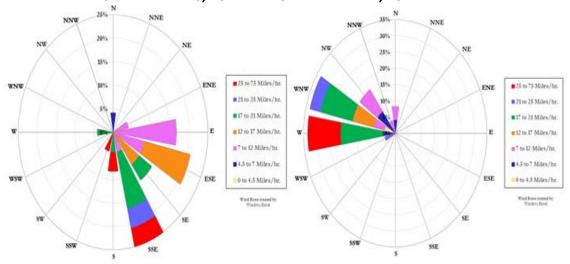


Fig B-15: Campo Airport wind data from the NCEI's QCLCD system.

# FIGURE B-16 CAHUILL RANGER STATION WIND SPEED, GUSTS AND DIRECTION

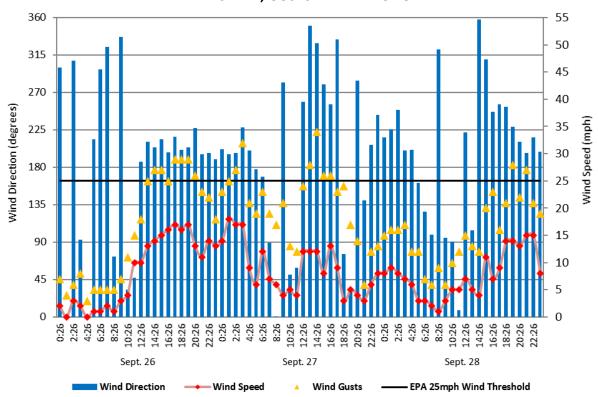


## FIGURES B-17 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

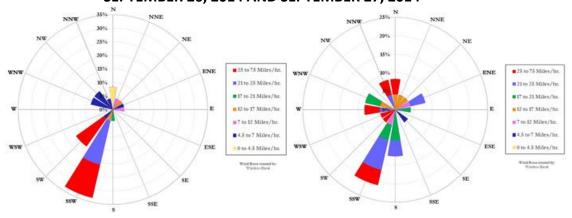


**Figs B-16 and B-17:** Wind roses for the Cahuilla Ranger Station depict gusts (not winds) on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID QCAC1)

# FIGURE B-18 FISH CREEK MOUNTAINS WIND SPEED, GUSTS AND DIRECTION

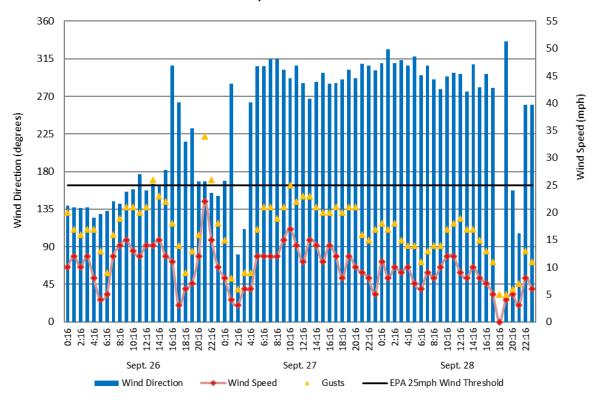


# FIGURES B-19 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

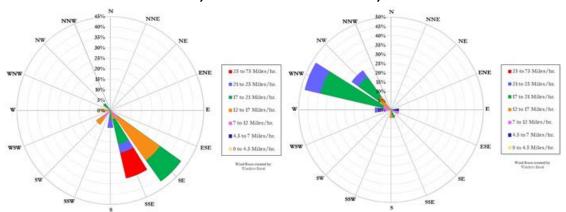


**Figs B-18 and B-19:** Wind roses for the Fish Creek Mountains depict gusts (not winds) on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID FHCC1)

#### FIGURE B-20 FORT YUMA, ARIZONA WIND SPEED, GUSTS AND DIRECTION

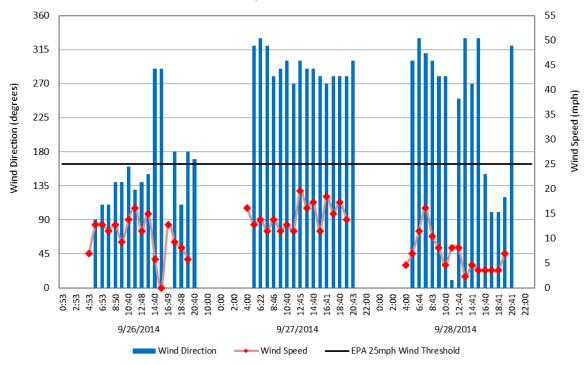


## FIGURES B-21 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

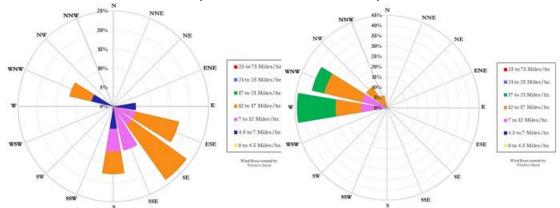


**Figs B-20 and B-21:** Wind roses for Fort Yuma, AZ depict gusts (not winds) on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID FTYA3)

## FIGURE B-22 MEXICALI, MEXICO AIRPORT (MMML) WIND SPEED, GUSTS AND DIRECTION

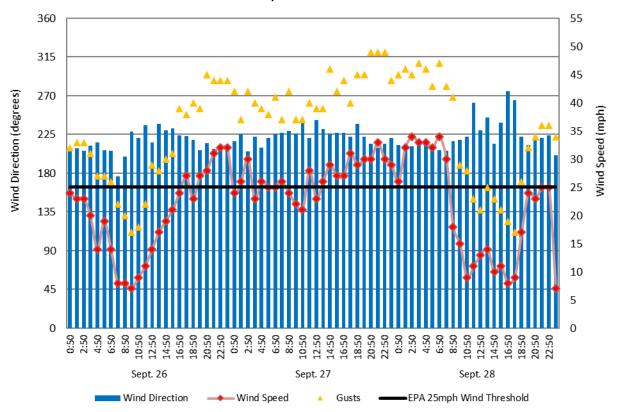


# FIGURES B-23 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

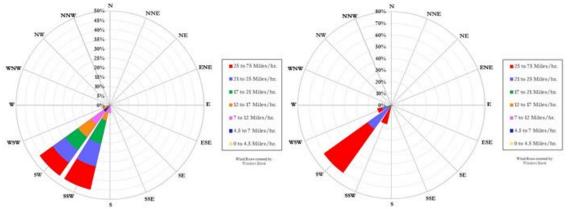


Figs B-22 and B-23: Wind roses for Mexicali, Mexico International Airport depict winds on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID MMML)

# FIGURE B-24 MOUNTAIN SPRINGS GRADE WIND SPEED, GUSTS AND DIRECTION

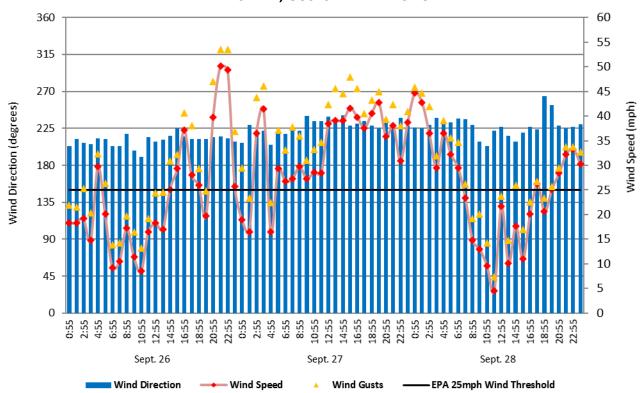


# FIGURES B-25 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

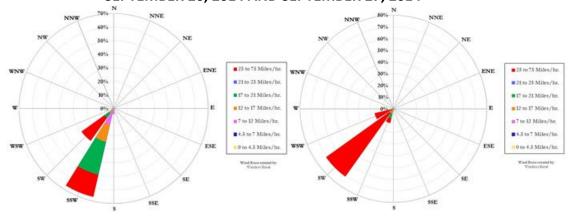


**Figs B-24 and B-25:** Wind roses for Mountain Springs Grade depict winds on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID TNSC1)

#### FIGURE B-26 MOUNT LAGUNA WIND SPEED, GUSTS AND DIRECTION

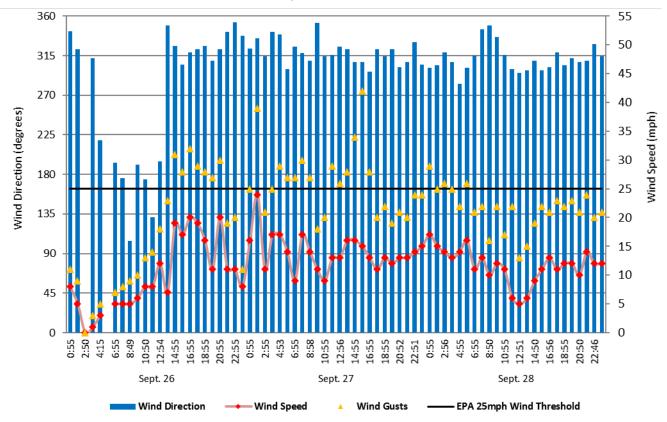


# FIGURES B-27 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

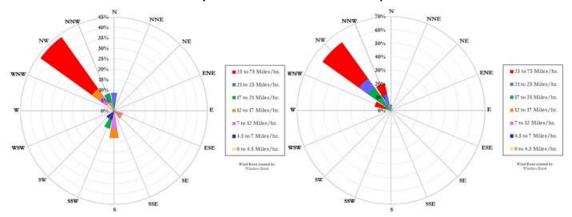


Figs B-26 through B-27: Wind roses for Mount Laguna (former USAF site) depict winds on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station ID HP001)

## FIGURE B-28 OCOTILLO WELLS WIND SPEED, GUSTS AND DIRECTION

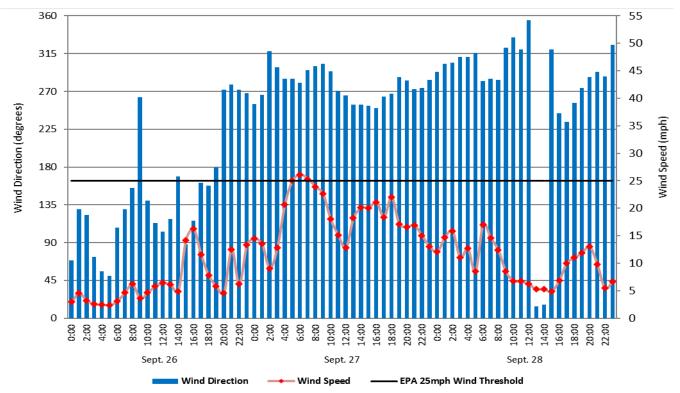


# FIGURES B-29 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

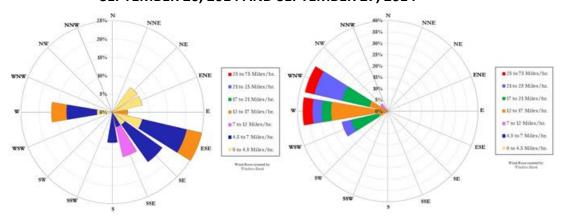


**Figs B-28 and B-29:** Wind roses for Ocotillo Wells depict gusts (not winds) on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station IDAS398/KD6RSQ5)

#### FIGURE B-30 SEELEY WIND SPEED AND DIRECTION

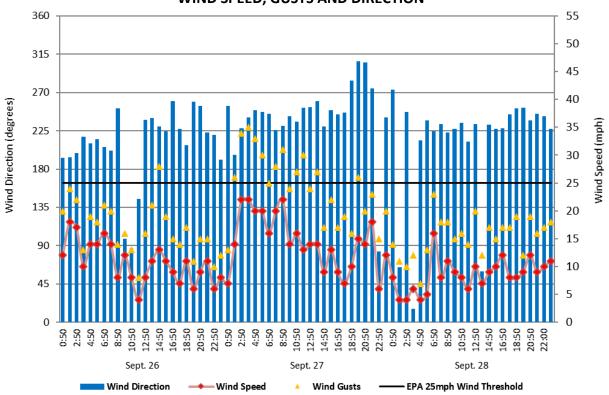


# FIGURES B-31 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

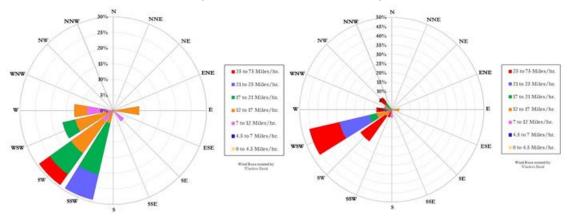


**Figs B-30 and B-31:** Wind roses for Seeley depict winds on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station Cl068).

#### FIGURE B-32 SUNRISE-OCOTILLO WIND SPEED, GUSTS AND DIRECTION

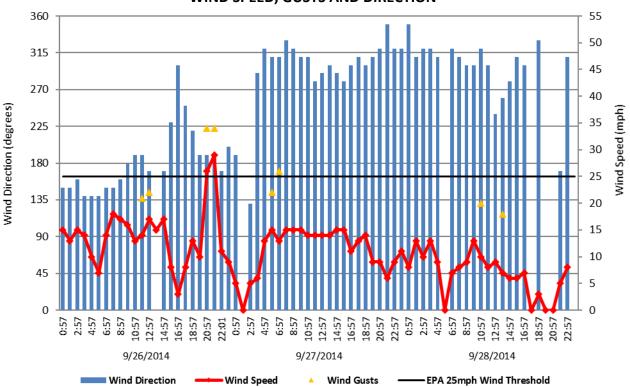


# FIGURES B-33 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014

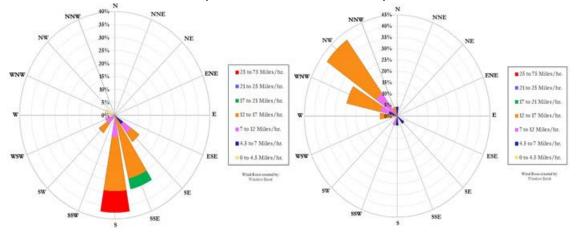


**Figs B-32 and B-33:** Wind roses for Sunrise-Ocotillo depict gusts (not winds) on September 26, 2014 (left), and September 27, 2014 (right). Wind data from the University of Utah's MesoWest (Station IMPSD)

## FIGURE B-34 YUMA MCAS (KNYL) WIND SPEED, GUSTS AND DIRECTION



# FIGURES B-35 WIND ROSES SEPTEMBER 26, 2014 AND SEPTEMBER 27, 2014



**Figs B-34 and B-35:** Yuma MCAS was upstream from Brawley on September 26, 2014 as indicated by the left wind rose. On September 27, 2014, wind direction changed, and the station was downstream (right wind rose). Wind data from the NCEI's QCLCD system

### FIGURE B-36 IMPERIAL COUNTY AIRPORT (KIPL) QCLCD

QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

U.S. Department of Commerce National Oceanic & Atmospheric Administration QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final) HOURLY OBSERVATIONS TABLE IMPERIAL COUNTY AIRPORT (03144) IMPERIAL, CA (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: -58 ft. below sea level

Latitude: 32.834 Longitude: -115.578 Data Version: VER2

Date		Station Type	Sky Conditions	Visibility (SM)	Weather Type	E	Ory Bulb emp	В	Vet ulb emp	P Te	ew oint emp	Rel Humd %	Wind Speed (MPH)	Wind	Wind Gusts (MPH)	Pressure	Press Tend	Net 3-hr Chg (mb)	Pressure	Report Type	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9		11	12	13	14	15	16	17	18	19	20	21	22	23
26 26 26 26 26 26 26 26 26 26 26 26 26 2	0353 0453 0553 0653 0753 0853 0953 1053 1153 1253 1301 1344 1353 1440 1453 1516 1553 1610 1625 1653 1753 1853	12 12 12 12 12 12 12 12 12 12 12 12 12 1	BKN090 BKN120 CLR CLR	10.00 10.00	VCTS TS HZ VCTS HZ VCTS	84 83 82 82 82 84 87 91 95 97 99 99 89 89 89 89 89 89 89 89 89 89 89	28.3 28.3 27.8 27.8 28.9 33.9 33.9 36.1 37.2 31.7 32.8 31.7 32.8 31.7 32.8 31.7 32.8 31.7 32.8 31.7 32.8 32.8 33.9 31.7 32.8 33.9 33.9 33.9 33.9 33.9 33.9 33.9 33	79 79 79 79 79 79 79 79 79 79 79 79 79 7	26.3 26.3 26.5 25.7 25.4 26.5 26.1 26.5 25.2 25.7 26.1 24.0 24.3 24.3 24.3 24.3 24.1 29.3 24.1 29.3 24.1 29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	78 778 776 766 776 777 773 770 771 771 699 699 679 688 688 689 688 576 596 596 596 596 596 596 596 596 596 59	25.6 25.6 25.0 25.0 24.4 25.0 22.8 21.1 20.6 21.1 20.6 20.6 20.6 20.6 20.6 20.0 20.6 20.0 20.6 20.0 20.0	85 85 82 82 80 776 47 46 40 39 41 57 50 50 50 48 50 50 50 50 50 50 50 50 50 50 50 50 50	8 11 8 5 3 6 5 0 3 22 22 22 22 22 22 22 22 22 22 22 29 16 8 10 9 5 7 9 9 13	080 100 110 120 140	36 31 44 32 37	29.81 29.81 29.81 29.82 29.83 29.83 29.84 29.86 29.86 29.86 29.86 29.86 29.87 29.77 29.77 29.77 29.72 29.71 29.72 29.72 29.73 29.72 29.73 29.72 29.73 29.72 29.73 29.72 29.73 29.75 29.76 29.77			29.75 29.75 29.76 29.77 29.77 29.77 29.77 29.80 29.80 29.79 29.79 29.74 29.69 M M 29.66 M M 29.66 M M 29.66 M 29.66 M 29.77 29	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		29,75 29,75 29,75 29,76 29,77 29,77 29,78 29,80 29,78 29,74 29,69 29,68 29,69 29,66 29,65 29,66 29,66 29,66 29,66 29,66 29,66 29,66 29,67 29,68 29,70 29,68

Dynamically generated Thu Dec 17 19:17:41 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD

QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

U.S. Department of Commerce National Oceanic & Atmospheric Administration QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final) HOURLY OBSERVATIONS TABLE IMPERIAL COUNTY AIRPORT (03144) IMPERIAL, CA (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: -58 ft. below sea level Latitude: 32.834

Longitude: -115.578 Data Version: VER2

Date		Station Type	Sky Conditions	Visibility (SM)	Weather Type	T	Ory Bulb emp	В	Vet ulb emp	Te	ew oint emp	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend		Sea Level Pressure (in. hg)	Report	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9	_	11		13	14	15	16	17	18	19	20	21	22	23
27 27 27 27 27	0253 0350	12 12 12 12	CLR CLR CLR SCT009 SCT120 BKN009	6.00	HZ HZ HZ	82 79 75	24.0	62 61 62	16.4 16.0 16.4	46 47 52	7.8	28 32 45	14	260 290 290 300 290	23 23 23	29.75 29.73 29.74 29.76 29.76			29.69 29.67 29.68 M 29.70	AA AA SP AA		29.69 29.67 29.68 29.70 29.70
27 27 27 27 27	0405 0412	12 12 12	BKN009 OVC009 OVC008	2.00 1.25 2.00	HZ HZ HZ HZ	76 76 75	24.4	63 63	16.9 16.9 15.4	53 53 48	11.7 11.7 8.9	45 45 39	16 16 14	290 290 290 290 320	24 24	29.77 29.77 29.77 29.77 29.78			M M M 29.72	SP SP SP AA		29.71 29.71 29.71 29.71 29.72
27 27 27	0553 0653 0753	12 12 12 12	CLR CLR CLR CLR	8.00 10.00 10.00 9.00	112		25.0 25.6 27.2	56 55 55	13.5 12.8	37 32 28	2.8 0.0 -2.2	24 19 14	18 26 25	270 290 290 270	28 36 39 37	29.78 29.77 29.79 29.80			29.72 29.71 29.73 29.74	AA AA AA AA		29.72 29.71 29.73 29.74
27 27 27 27	0953 1053 1153	12 12 12	CLR CLR CLR	10.00 10.00 10.00		87 88 91	30.6 31.1 32.8	57 58 59	14.0 14.4 14.9	27 28 27	-2.8 -2.2 -2.8	11 10	23 16 13	280 250 260	34 22 22	29.79 29.78 29.75			29.73 29.72 29.69	AA AA		29.73 29.72 29.69
27 27 27 27	1353 1453 1553	12 12	CLR CLR CLR CLR	10.00 10.00 10.00 10.00		92 90	33.3 33.3 32.2	59 61 61	15.1 16.3 16.0	27 35 36	1.7	10 13 15	8 24 24	270 280 240 240	22 30 33	29.71 29.69 29.67 29.68			29.63 29.61 29.62	AA AA AA		29.65 29.63 29.61 29.62
27 27 27 27	1753 1853 1953	12 12 12 12	CLR CLR CLR CLR	10.00 10.00 10.00 10.00		75	26.7 25.0 23.9	59 59 58	15.1 15.1 14.5	42 45 44	5.6 7.2 6.7	26 32 33	18 16 20	250 270 260 260	29 30 30	29.70 29.73 29.76 29.77				AA AA AA		29.64 29.67 29.70 29.71
27 27 27 27	2153	12 12 12 12	CLR CLR CLR CLR	10.00 10.00 10.00 10.00		70 70	22.2 21.1 21.1 20.0	56 55	13.4 12.9	44 42	6.7 5.6	39 36	11	250 270 270 290		29.79 29.80 29.81 29.81			29.74 29.75 29.75 29.75	AA AA AA		29.73 29.74 29.75 29.75

Dynamically generated Thu Dec 17 19:15:37 EST 2015 via <a href="http://www.ncdc.noaa.gov/qclcd/QCLCD">http://www.ncdc.noaa.gov/qclcd/QCLCD</a>

### FIGURE B-37 EL CENTRO NAF (KNJK) QCLCD

QUALITY CONTROLLED Local Climatological Data: NAF

U.S. Department of Commerce National Oceanic & Atmospheric Administration QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: -42 ft. below sea level

Latitude: 32.816 Longitude: -115.683 Data Version: VER2

Date		Station Type	Sky Conditions	Visibility (SM)	Weather Type	Te	Ory Julb emp (C)	Bu	et ulb mp (C)	Po Ter	int mp	Rel Humd %	Wind Speed (MPH)	Wind Dir		Station Pressure (in. hg)	Press Tend		Pressure	Report Type	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
26 26 26 26 26 26 26 26 26 26 26 26 26 2	0856 0956 1056 1156 1256 1356 1456 1556 1656 1706 1756 1856	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CLR CLR CLR CLR CLR CLR CLR CLR CLR CLS FEW100 FEW130 FEW200 FEW070 FEW100 FEW070 FEW070 FEW080 SCT070 SCT100 FEW1000B CLR100 FEW060 SCT070CB SCT100 FEW050 SCT070CB SCT110 CLR	10.00 10.00	VCTS	82 81 80 81 84 88 92 94 96 99 98 92 93 90 91 88 85 85 85 84	31.1 33.3 34.4 35.6 37.2 36.7 33.3 33.9 32.2 32.2 32.8 31.1 30.0 30.6 29.4 29.4	78 78 78 77 77 77 79 80 77 75 75 78 78 75 76 75 73 74 74 74 73 70 68 66 66 66 66 66	25.4 25.7 25.6 25.2 26.1 26.6 24.8 24.1 24.1 25.4 25.3 24.1 24.1 25.3 24.1 25.3 24.1 25.3 26.3 27.3	76 777 776 76 777 77 77 77 77 77 66 69 68 69 68 69 68 65 65 61 57 54 53 53 54	224.4 225.0 225.0 225.0 224.4 224.4 225.0 225.0 221.1 118.9 220.6 220.6 220.0 118.3 118.9 11	82 85 88 88 88 87 70 49 41 37 33 39 45 44 44 44 44 44 44 44 44 44	5 6 6 6 8 9 7 5 5 0 0 7 5 5 2 4 2 2 6 1 1 1 4 6 1 3 1 0 6 2 0 5 5 5	100 150 160 170 180 200 260 230 260 260	25	29,79 29,79 29,79 29,81 29,81 29,83 29,84 29,83 29,84 29,83 29,70 29,70 29,70 29,70 29,70 29,75 29,75 29,75 29,75 29,75 29,75 29,76 29,76			29.80 29.79 29.79 29.81 29.82 29.81 29.82 29.84 29.83 29.84 29.83 29.72 29.72 29.72 29.72 29.70 M 29.73 29.75 M 29.76 29.77 29.76 29.77 29.77 29.77 29.77	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		29.75 29.75 29.75 29.76 29.77 29.77 29.79 29.80 29.80 29.80 29.79 29.74 29.69 29.66 29.66 29.67 29.67 29.71 29.71 29.71 29.71

Dynamically generated Thu Dec 17 19:09:58 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD

QUALITY CONTROLLED Local Climatological Data: NAF

U.S. Department of Commerce National Oceanic & Atmospheric Administration QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: -42 ft. below sea level

Latitude: 32.816 Longitude: -115.683 Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Te	Ory Sulb emp	В	Vet ulb emp	P	ew oint emp		Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg	Pressure	Report Type	Precip. Total (in)	Alti- meter (in. hg)
					2.000	(F)	(C)	(F)	(C)	(F)	(C)	1 ~	(		(	(mil. mg/		(mb)	(in. hg)		(,	(m. ng/
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
27 27 27 27 27 27 27 27 27 27 27 27 27 2	0056 0156 0256 0343 0356 0456 0556 0656 0756 0856 1056 1156 1256 1356	555555555555555555555555555555555555555	FEW070 FEW120 FEW070 FEW120 FEW070 FEW120 FEW070 FEW180 FEW070 FEW180 FEW070 FEW180 FEW070 FEW110 FEW070 FEW110 FEW070 FEW110 FEW070 FEW070 FEW070 FEW070	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	HZ HZ	83 80 77 76 77 79 79 83 86 88 89 91 92 94 94	28.3 26.7 25.0 24.4 25.0 26.1 26.1 28.3 30.0 31.1 31.7 32.8 33.3 34.4 34.4	60 61 62 58 55 54 55 57 57 59 58 59 62	14.3 12.8 12.2 12.6 12.9 13.9 14.1 14.8 14.5 14.5 16.5	42 47 52 52 41 31 27 23 19 24 26 22 22 34	8.3 11.1 11.1 5.0 -0.6 -2.8 -5.0 -7.28 -4.4 -4.4 -3.3 -5.6 -5.6 1.1	24 31 42 43 28 17 15 11 8 10 9 9 8 7	28 30 29 31 25 23 18 14 10 9	280 270 270 260 270 280 260 240 250 210 290 290 230	28 36 34 38 43 38 43	29.73 29.73 29.73 29.73 29.73 29.75 29.76 29.76 29.78 29.80 29.77 29.73 29.70 29.67			M 29.74 29.75 29.77 29.77 29.78 29.82 29.81 29.78 29.73 29.70 29.67 M	AA AA AA SPA AA AA AA AA AA AA AA AA AA AA AA AA A		29.69 29.68 29.69 29.69 29.71 29.73 29.74 29.76 29.73 29.69 29.63 29.63 29.63
27 27 27 27 27 27 27 27 27 27 27	1456 1556 1656 1756 1856 1956 2056 2156 2256 2356	5555555	CLR	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00		78 76 74 74 72	32.2 30.0 27.2 25.6 24.4 23.3 23.3 22.2	60 59 59 58 58 58 56 55	16.5 15.7 15.0 15.1 14.9 14.2 14.3 13.2 12.7 12.0	34 35 41 43 42 44 39 39	1.7 5.0 6.1 5.6 6.7 3.9 3.9	14 16 24 29 30 34 28 30	25 28 29 28 25 28 18 16 14	240 250 240 240	32 33 32 32 36	29.67 29.68 29.69 29.72 29.74 29.76 29.78 29.80 29.80 29.79			29.73 29.75 29.76	AA AA AA AA AA AA AA AA AA AA AA AA AA		29.63 29.64 29.65 29.68 29.70 29.72 29.74 29.76 29.76 29.75

Dynamically generated Thu Dec 17 18:50:45 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD

### FIGURE B-38 YUMA AZ MCAS (KNYL) QCLCD

2/8/2017

QUALITY CONTROLLED Local Climatological Data: YUMA MCAS

U.S. Department of Commerce National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE YUMA MCAS (03145) YUMA, AZ (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: 213 ft. above sea level

Latitude: 32.65 Longitude: -114.616 Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	В	ory ulb mp	E	Wet Bulb emp (C)	P	ew oint emp	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
26	0057	5	CLR	10.00		85	29.4	78	25.4	75	23.9	72	15	150		29.55			29.77	AA		29.78
26	0157	5	CLR	10.00	l	84	28.8	78	25.3	75	23.9	74	15	150		29.55			29.77	AA		29.78
26	0257		CLR	10.00	l	84					23.9			150		29.55			29.76	AA		29.78
26			CLR	10.00	l	84					22.8			160		29.54			29.76	AA		29.77
26			CLR	10.00	l	85					22.8			140		29.55			29.76	AA		29.78
26			CLR	10.00	l	85					22.8		10	140		29.56			29.77	AA		29.79
26			FEW100	10.00	l	84					22.8		7	140		29.58			29.80	AA		29.81
26		5	FEW100	10.00	l	87					23.3		14	150		29.59			29.81	AA		29.82
26			SCT024	10.00	l	89					23.3			150		29.60			29.82	AA		29.83
26 26			SCT025 SCT025	10.00	l	92 95					23.3 22.8		16	160 180		29.60 29.59			29.82 29.80	AA		29.83
26			SCT030	10.00	l	97					21.7			190		29.59			29.79	AA		29.82
26	1257		SCT050 SCT200	10.00	l	99					20.0			190		29.54			29.75	AA		29.77
26	1357		FEW050 SCT200	10.00	l	101					19.4					29.50			29.71	AA		29.73
26	1457		FEW050 BKN200	10.00	l	102					18.3			170		29.48			29.70	AA		29.71
26	1555		CLR	10.00	TS	99					18.0			180		29.44			M	SP		29.67
26	1557	5	FEW030 BKN200	10.00		99	37.2	75	23.9	64	17.8	32	17	170		29.44			29.66	AA		29.67
26	1657	5	FEW030 SCT100 BKN200	10.00	l	97	36.1	1 76	24.2	66	18.9	36	8	230		29.47			29.68	AA		29.70
26	1757	5	FEW030 SCT100 BKN200	10.00	l	90	32.2	74	23.5	67	19.4	47	3	300		29.46			29.68	AA		29.69
26	1857		FEW030 SCT100 BKN200		l	90					19.4			250		29.48			29.70	AA		29.71
26	1957		FEW050 SCT100 BKN200		l	90					19.4			220		29.51			29.73	AA		29.74
26	2057		FEW050 SCT100 SCT200		l	88					20.6			190		29.51			29.72	AA		29.74
26	2157		SCT050 SCT100 BKN200		HZ	88					21.7			190		29.53			29.74	AA		29.76
26	2201		SCT050 SCT100 BKN200		BLDU	87					21.7			190		29.52			M	SP		29.75
26	2206		SCT050 SCT100 BKN200		HZ	86					21.1			190		29.52			M	SP		29.75
26 26	2257 2357		FEW050 SCT100 SCT200 FEW050 SCT100	10.00	I	84					21.1 20.0			170		29.50 29.50			29.72	AA		29.73

Dynamically generated Wed Feb 08 11:39:32 EST 2017 via http://www.ncdc.noaa.gov/qclcd/QCLCD

QUALITY CONTROLLED Local Climatological Data: YUMA MCAS

U.S. Department of Commerce National Oceanic & Atmospheric Administration QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE YUMA MCAS (03145) YUMA, AZ (09/2014) National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

Elevation: 213 ft. above sea level

Latitude: 32.65 Longitude: -114.616 Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	E	Dry Bulb emp	E	Wet Bulb emp	1	Dew Point emp	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend		Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
27 27 27 27 27 27 27 27 27 27 27 27 27 2	0157 0257 0306 0328 0357 0457 0557 0636 0644 0657 0757 0757 1157 1257 1357 1457 1457 1757 1757 1757 1757 1757 17	<i>ਜ਼</i>	SCT050 SCT100 SCT050 SCT100 SCT050 SCT100 SCT050 SCT100 SCT050 SCT100 FEW050 SCT100 FEW050 SCT100 SCT050 BKN080 SCT050 BKN080 SCT030 BKN080 FEW050 SCT100 FEW050 SCT100 FEW050 BKN120 FEW050 FEW120 FEW060 SCT100 FEW060 SCT100 FEW060 SCT100 FEW060 SCT120 FEW060 FEW120 FEW060 FEW120 FEW060 FEW120 FEW060 FEW120 FEW060 FEW120 FEW060 FEW120 FEW060 CLR120 FEW050 FEW050 FEW050 FEW050 FEW050 CLR	10.00 10.00	BLDU HZ HZ HZ	84 84 84 84 84 83 84 81 80 81 84 88 87 89 93 93 93 93 94 80 76 75	28.9 28.9 28.9 28.9 28.9 27.2 26.7 27.2 28.9 31.1 30.6 31.7 33.9 33.9 33.9 32.8 30.6 28.9 26.9 25.6	74 73 72 72 73 74 69 62 61 61 60 58 57 M 62 63 59 59 59 59 57 57	22. 22. 22. 23. 20. 16. 15. 14. 14. 14. 14. 14. 14. 14. 14. 14.	2 68 67 68 68 68 68 68 68 68 68 68 68 68 68 68	20.6 18.9 18.9 20.6 15.6 15.6 2.2 3.9 3.0 2.2 3.9 4 2.2 3.9 4 3.0 5 3.0 4 3.0 5 3.0 5 3.0 5 3.0 5 3.0 5 3.0 5 3.0 5 3.0 5 3.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	61 555 555 563 444 331 302 516 110 M 13 15 14 8 8 10 14 17 17 225	16 14 15 15 15 15 15 14 14 14 14 15 15 11 13 15 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	200 190 000 130 140 130 290 310 310 310 310 310 320 310 310 310 320 3280 290 280 300 310 310 320 320 320 320 320 320 320 320 320 32	26 23 22 26	29.50 29.49 29.48 29.48 29.47 29.47 29.48 29.50 29.50 29.50 29.51 29.50 29.51 29.52 29.53 29.52 29.53 29.52 29.53 29.52 29.53 29.52 29.44 29.42 29.41 29.42 29.41 29.42 29.45			29.71 29.70 29.69 M M M M 29.70 29.70 29.71 M M 29.72 29.74 29.75 29.74 29.75 29.74 29.75 29.68 29.62 29.62 29.62 29.62 29.65 29.67 29.70 20.70	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		29.73 29.72 29.71 29.71 29.71 29.70 29.70 29.70 29.73 29.73 29.73 29.75 29.76 29.76 29.76 29.76 29.64 29.64 29.64 29.68 29.68 29.69 29.69 29.69 29.69 29.69 29.69 29.69 29.69 29.69 29.73 29.75

Dynamically generated Thu Dec 17 17:57:18 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD